

# VU Research Portal

## Services on top of the institutional bibliography

Gerritsma, W.

2015

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# SERVICES ON TOP OF THE INSTITUTIONAL BIBLIOGRAPHY

W. GERRITSMA, VU UNIVERSITY AMSTERDAM





# CONTENTS

- Introduction
- Ground work
- Institutional bibliography
- Services on top of the Institutional bibliography
- Winding down
- Take home messages

# INTRODUCTION

Previously at WageningenUR Library

Research support team

Bibliometric analyses for research assessments and  
collection analysis

Data management



# INTRODUCTION

Previously at WageningenUR Library

Research support team

Bibliometric analyses for research assessments and  
collection analysis

Data management

Currently VU University Library, Digital Services &  
Innovation

Digital library systems

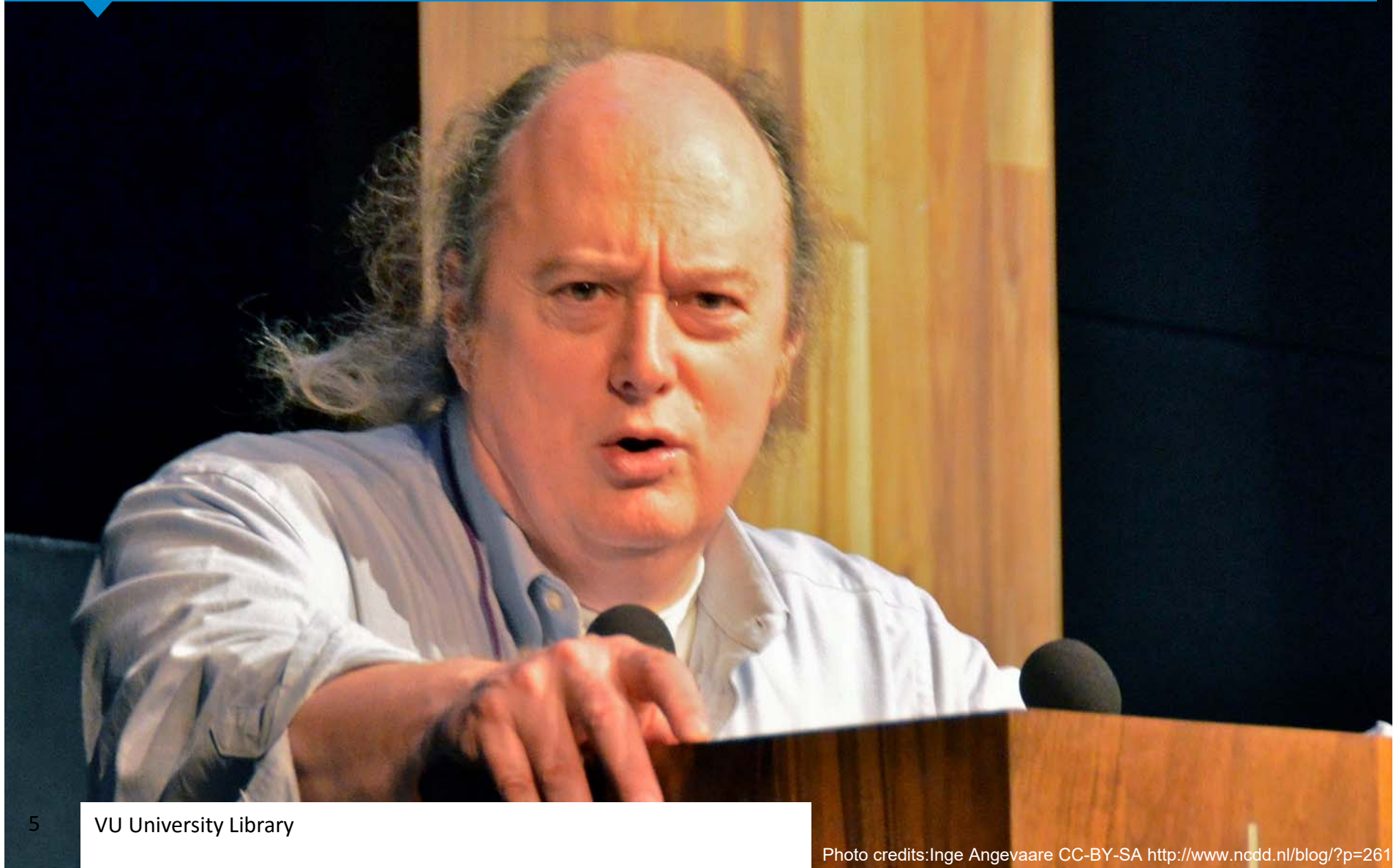
Metadata services

Innovation





# ON DIGITAL LIBRARIES



# ON DIGITAL LIBRARIES

*"Digital libraries": this oxymoronic phrase has attracted dreamers and engineers, visionaries and entrepreneurs, a diversity of social scientists, lawyers, scientists and technicians. And even, ironically, librarians – though some would argue that digital libraries have very little to do with libraries as institutions or the practice of librarianship.*

Lynch, C. (2005). Where do we go from here? The next decade for digital libraries. *D-Lib Magazine* 11(7/8).

<http://www.dlib.org/dlib/july05/lynch/07lynch.html>

# CRIS AND REPOSITORY LANDSCAPE IN NL

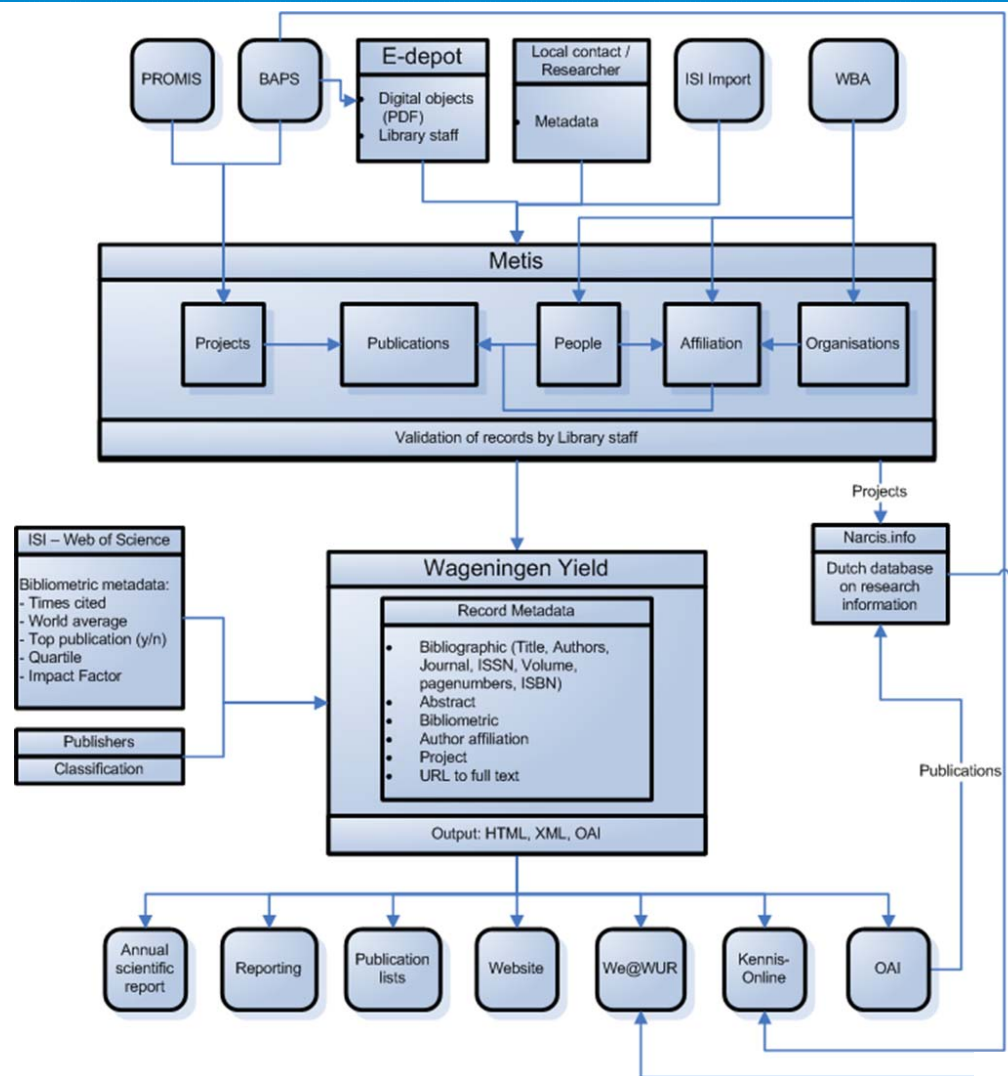
- All universities in NL have a Currunt Research Information System (CRIS)
  - > Most universities are shifting from Metis, to either Pure or Converis, Symplectic is not in the picture (too simple)
- All universities have an (Open Access) Repository
  - > I prefer the term “institutional bibliography”, but universities differ in what they present in the repository
- All Dutch (OA) repositories are harvested by Narcis the overarching national OA repository



# CURRENT SITUATION AT WAGENINGEN UR

- CRIS is the back-end, Institutional Bibliography is the front-end of the system, the display window of [Wageningen output](#)
- At least some 10,000 registrations per year
  - Scholarly journal articles constitute ca. 33% of registrations
- Moving back to include all scholarly output since 1918
- Currently some 240,000 registrations, of which 74,000 OA and 33,000 TA, and 131,000 references to the paper trail

# CRIS AND REPOSITORY INFRASTRUCTURE





# VISUAL PRESENTATION

**Number of publications: 239202**

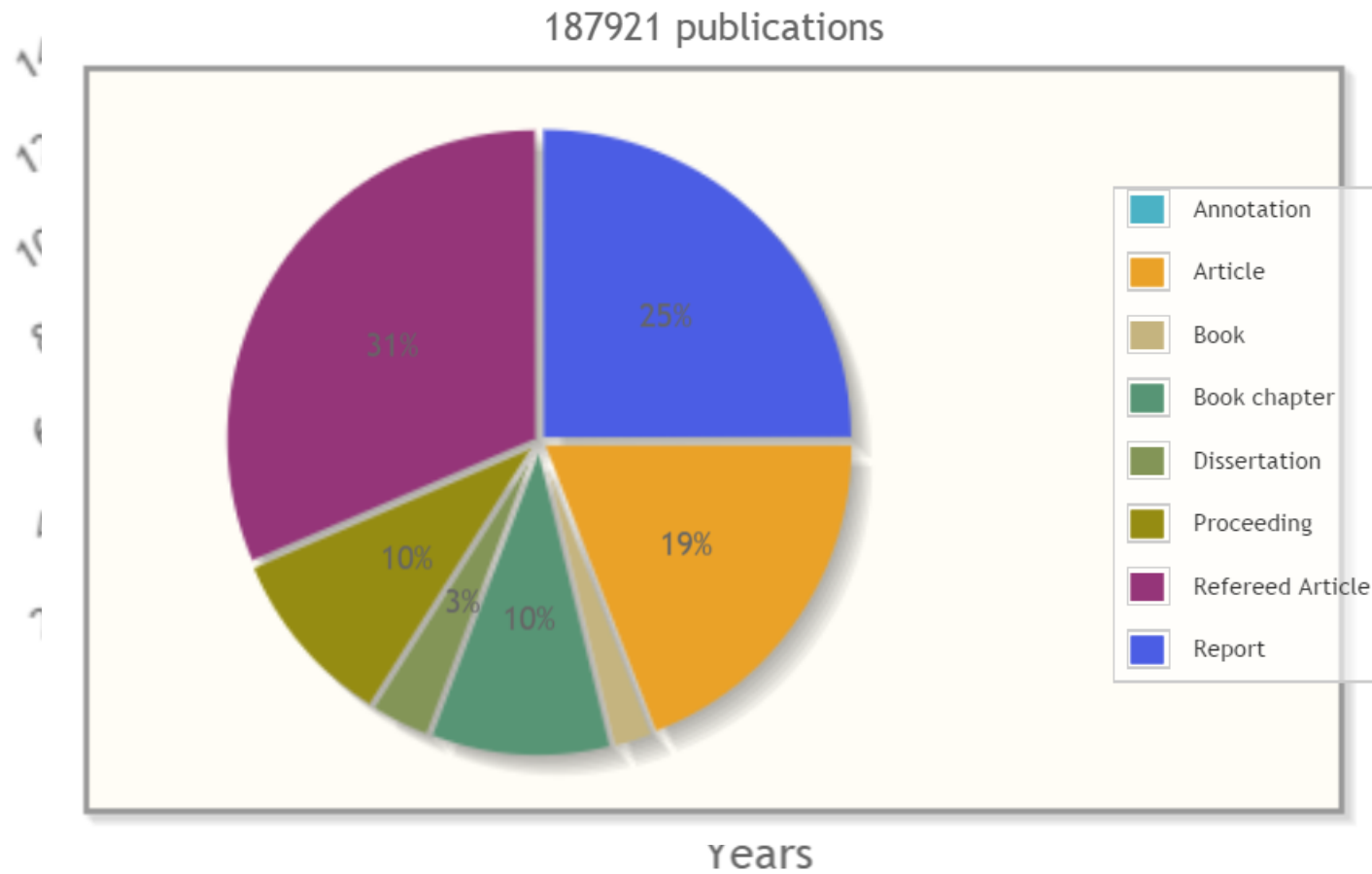
Publications 2001 - 2015



# VISUAL PRESENTATION

**Number of publications: 239202**

**Output by type**

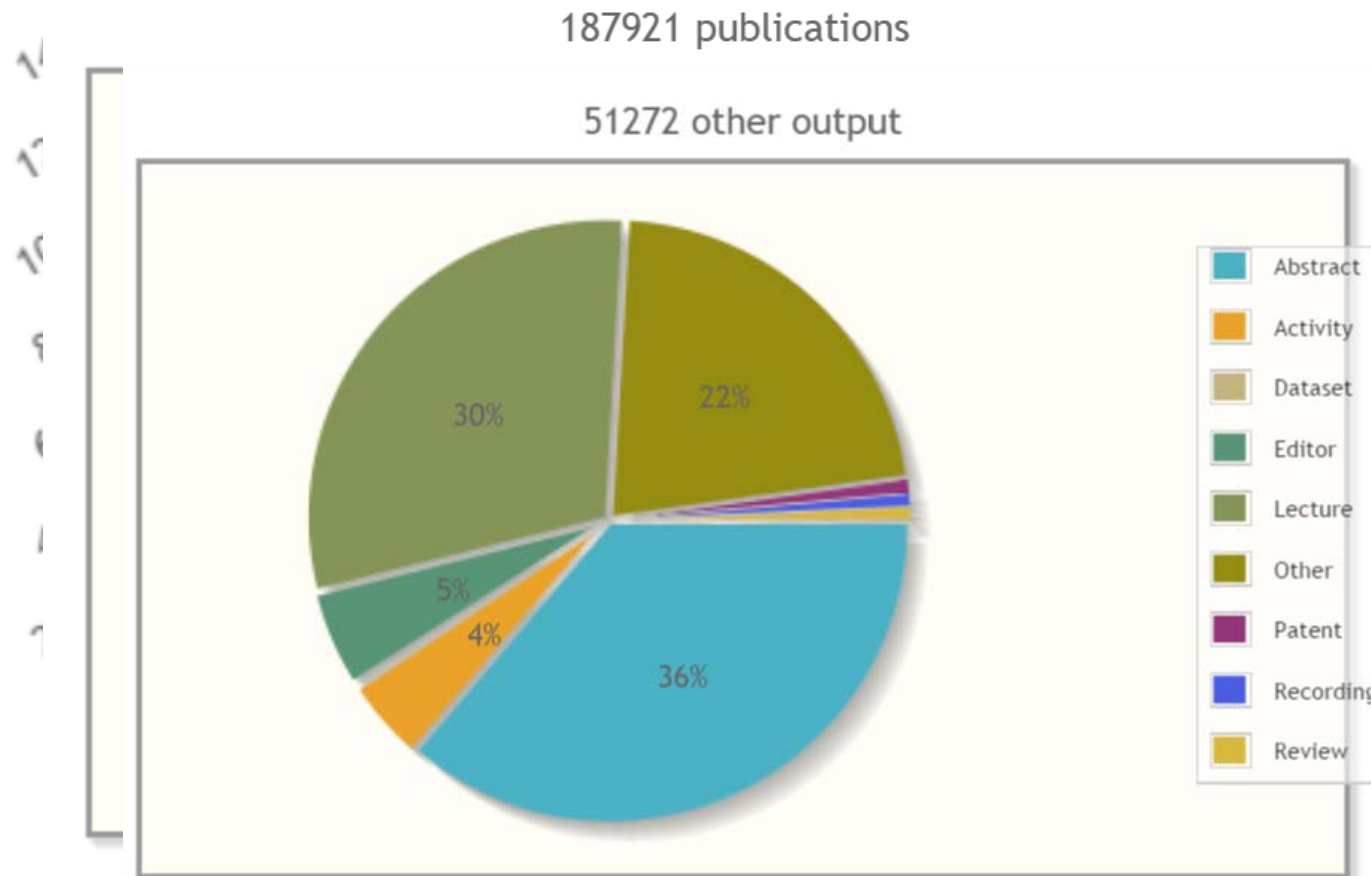




# VISUAL PRESENTATION

**Number of publications: 239202**

**Output by type**



# Services on top of the Institutional bibliography

- Advanced bibliometric indicators
- Tenure track support
- Minting DOI's
- Altmetric indicators
- Linking thesis chapters as preprints to articles
- FTXT indexing/TDM of the universities “dark archive”
- Collection analysis based on article references
- Journal recommendations



# ADVANCED BIBLIOMETRIC INDICATORS

- Started in 2003/04
  - > Manually, using Access/Excel
- In 2008 implemented bibliometrics service on top of the repository
  - > Allowing us to slice and dice the research impact in any way we wish
  - > We can make any impact dashboard any moment
  - > Three different sections of reporting
- For the time being, based on WoS/ESI
  - > Evaluating SciVal, InCites & CWTS monitor
- Always link to the metadata included in the analysis

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**Transparency!!!**

# BIBLIOMETRIC REPORTS

Research Field	N	C	Wavg	CPP	RI	%T10 (T10)	%T1 (T1)	%NC (NC)
Agricultural Sciences	<u>237</u>	3871	2107	16.33	2.33	28% ( <u>66</u> )	6% ( <u>14</u> )	3% ( <u>8</u> )
Biology & Biochemistry	<u>6</u>	25	114	4.17	0.41	0% (0)	0% (0)	0% (0)
Clinical Medicine	<u>1</u>	0	8	0.00	0.00	0% (0)	0% (0)	100% ( <u>1</u> )
Computer Science	<u>11</u>	172	62	15.64	2.88	45% ( <u>5</u> )	9% ( <u>1</u> )	0% (0)
Economics & Business	<u>5</u>	78	51	15.60	1.74	40% ( <u>2</u> )	0% (0)	0% (0)
Engineering	<u>2</u>	13	9	6.50	3.59	50% ( <u>1</u> )	0% (0)	0% (0)
Environment/Ecology	<u>123</u>	4527	2043	36.80	2.06	30% ( <u>37</u> )	3% ( <u>4</u> )	2% ( <u>3</u> )
Geosciences	<u>9</u>	131	85	14.56	1.82	33% ( <u>3</u> )	0% (0)	11% ( <u>1</u> )
Plant & Animal Science	<u>21</u>	340	210	16.19	1.51	29% ( <u>6</u> )	0% (0)	5% ( <u>1</u> )
Social Sciences, General	<u>35</u>	478	239	13.66	2.20	31% ( <u>11</u> )	0% (0)	6% ( <u>2</u> )
All research fields	<u>450</u>	9635	4928	21.41	2.18	29% ( <u>131</u> )	4% ( <u>19</u> )	4% ( <u>16</u> )



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Clinical I								
Year of publication	N	C	Wavg	CPP	RI	%T10 (T10)	%T1 (T1)	%NC (NC)
Comput								
2004	<u>24</u>	549	488	22.88	1.16	17% ( <u>4</u> )	0% (0)	4% ( <u>1</u> )
Economi								
2005	<u>39</u>	2200	804	56.41	2.56	33% ( <u>13</u> )	5% ( <u>2</u> )	0% (0)
Engineer								
2006	<u>52</u>	1599	896	30.75	1.66	23% ( <u>12</u> )	4% ( <u>2</u> )	0% (0)
Environr								
2007	<u>59</u>	1570	884	26.61	1.79	29% ( <u>17</u> )	2% ( <u>1</u> )	2% ( <u>1</u> )
Geosci								
2008	<u>42</u>	805	488	19.17	1.77	21% ( <u>9</u> )	2% ( <u>1</u> )	2% ( <u>1</u> )
Plant & J								
2009	<u>51</u>	1059	527	20.76	2.19	25% ( <u>13</u> )	6% ( <u>3</u> )	2% ( <u>1</u> )
Social S								
2010	<u>45</u>	697	338	15.49	2.08	33% ( <u>15</u> )	2% ( <u>1</u> )	4% ( <u>2</u> )
All rese								
2011	<u>52</u>	556	294	10.69	2.04	29% ( <u>15</u> )	6% ( <u>3</u> )	2% ( <u>1</u> )
2012	<u>39</u>	360	137	9.23	2.73	33% ( <u>13</u> )	8% ( <u>3</u> )	8% ( <u>3</u> )
2013	<u>47</u>	240	71	5.11	3.58	43% ( <u>20</u> )	6% ( <u>3</u> )	13% ( <u>6</u> )
All years	<u>450</u>	9635	4928	21.41	2.18	29% ( <u>131</u> )	4% ( <u>19</u> )	4% ( <u>16</u> )

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Plant & J	2008	42	805	488	19.17	1.77	21% (9)	2% (1)	2% (1)	
Social S	2009	51	1059	527	20.76	2.19	25% (13)	6% (3)	2% (1)	
	2010	45	697	338	15.49	2.08	33% (15)	2% (1)	4% (2)	
All resear	2011									
	2012	Quartile	N	C	Wavg	CPP	RI	%T10 (T10)	%T1 (T1)	%NC (NC)
	2013	1	291	7855	3132	26.99	2.72	37% (107)	7% (19)	2% (7)
		2	82	1064	807	12.98	1.50	20% (16)	0% (0)	5% (4)
	All year	3	46	434	494	9.43	1.07	13% (6)	0% (0)	2% (1)
		4	23	161	385	7.00	0.43	0% (0)	0% (0)	17% (4)
		All quartiles	442	9514	4817	21.52	2.20	29% (129)	4% (19)	4% (16)

# TENURE TRACK REPORT : PUBLICATION CREDITS

## Report of Publication Credits

### Natural Sciences

<b>Author:</b>	B.P.H.J. Thomma	<b>Metisno:</b>	1014861
<b>Report generated:</b>	23 October 2012 at 20:48	<b>DAI:</b>	314599800

			2012		2011		2010		2009		2008		2007		
			Credits p.p.	n	credits	n	credits	n	credits	n	credits	n	credits	n	credits
ISI > 20	Major contribution	20	0	0	0	0	2	40	0	0	0	0	0	0	0
ISI (Q1)	Major contribution	6	3	18	9	54	8	48	7	42	7	42	6	36	
ISI (Q2)	Major contribution	3	0	0	1	3	0	0	0	0	2	6	1	3	
Book	Top publisher	12	0	0	0	0	0	0	0	0	0	0	0	0	0
	Semi top publisher	8	0	0	0	0	0	0	0	0	0	0	0	0	0
Total			18		57		88		42		48		39		

### Refereed publications:

#### 2012

#### Tomato immune receptor Ve1 recognizes effector of multiple fungal pathogens uncovered by genome and RNA sequencing

Jonge, R. de; Esse, H.P. van; Maruthachalam, K.; Bolton, M.D.; Santhanam, P.; Keykha Saber, M.; Zhang, Z.; Usami, T.; Lievens, B.; Subbarao, K.V.; Thomma, B. (2012)

Proceedings of the National Academy of Sciences of the United States of America 109 (2012)13. - ISSN 0027-8424 - p. 5110 - 5115.

[ISI Q1, Major contribution, 6 credits]



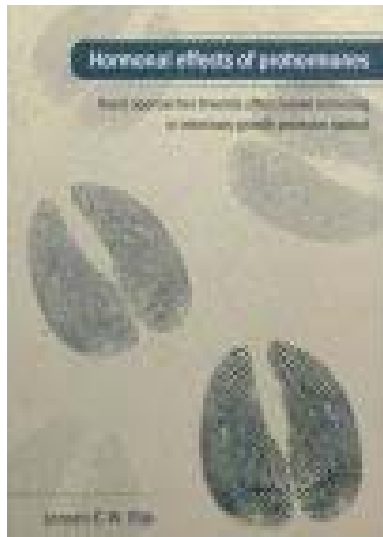
# MINTING DOI'S

- Library has been issueing ISBN for PhD-theses and reports
  - > ISBN is an identifier which is seriously broken!
- DOI
  - > Theses and reports are by and large produced e-only
  - > DOI has a resolving mechanism
  - > Make items better citable
  - > Metadata are fed back to Crossref (from the CRIS/Institutional bibliography) : Discoverability

# MAKING SMALL STEPS TO ALTMETRICS

- Measure a wider range uptakes
  - > News, social media, wikipedia, Medelely, policy documents
- Measure impact beyond classical WoS/Scopus covered publications
- Measure impact in humanities and social sciences
- Issue: Open API versus Off the shelf solutions (Altmetric/Plum analytics)

# LINKING THESIS CHAPTERS AS PREPRINTS TO ARTICLES



- [Thesis](#) consists of 8 chapters, 6 are research articles
- At the time of defence 4 already published, 1 accepted, 1 in prep.
- Challenge: link the articles back to the thesis chapters as OA version (GS does!)
- In Wageningen PhD students set out to publish 5.5 article per thesis and succeed in publishing 4.5



# FTXT INDEXING/TDM OF “DARK ARCHIVES”

- FTXT indexing/TDM of the universities “dark archive”

Today's Data, Tomorrow's Discoveries

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Increasing Access to the Results of Research Funded by the  
National Science Foundation

**National Science Foundation**

March 18, 2015



# FTXT INDEXING/TDM OF “DARK ARCHIVES”

- FTXT indexing/TDM of the universities “dark archive”

## Today’s Data, Tomorrow’s Discoveries

At the conclusion of the embargo period, end users who search for material through the PAGES interface will obtain a list of search results that will include pointers to the final accepted manuscript or to the version of record, depending on the publisher’s public access policies. Thus, end users have access to the most authoritative public access version of a given item. In the event a publisher’s site becomes inaccessible or if the version of record is not made available for public access, the item housed in DOE’s dark archive<sup>18</sup> is illuminated and becomes available to the end user.



# COLLECTION ANALYSIS BASED ON REFERENCES

e.g. nature, science, "air pollution", asia\* AND economi\*, african journal, ecology, eco\*, ps\*

Type the first letter(s) plus \* or type the first word(s) of a journal title for a list of titles starting with these letters or words. Click to expand that list

Sort result by:

---

Records 1 - 10 / 42515 🔔 alert 📄 export 🖨 print 🔍 ? help

↩ Check title to add to ☒ [marked list](#) << previous | next >>

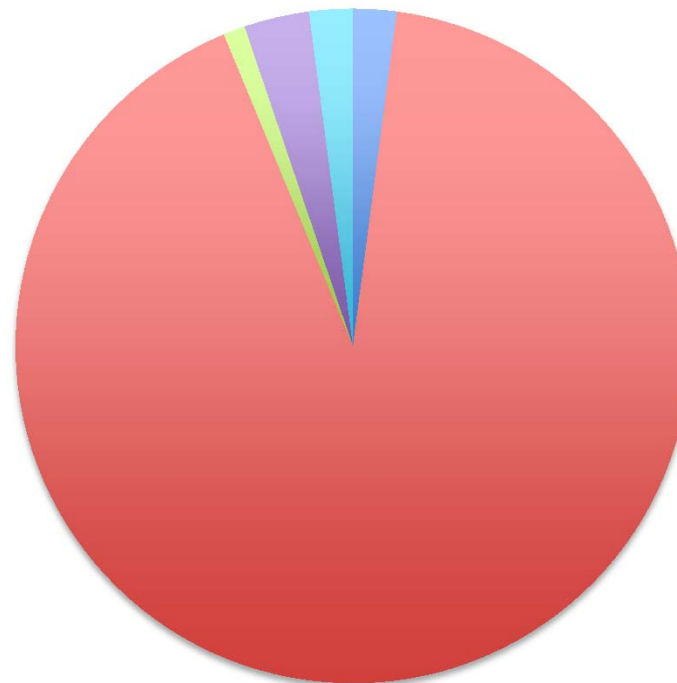
<input type="checkbox"/>	<b><u>Proceedings of the National Academy of Sciences of the United States of America</u></b> <b>[Journal]</b> National Academy of Sciences \ 1915- biology - physics - genetics - science - natural sciences	<a href="#">🔍 more info...</a>
<input type="checkbox"/>	<b><u>Nature : international journal of science</u></b> <b>[Journal]</b> 1869- technology - science - natural sciences	<a href="#">🔍 more info...</a> <a href="#">📍 show location</a>
<input type="checkbox"/>	<b><u>Science : a weekly journal devoted to the advancement of science / American Association for the Advancement of Science</u></b> <b>[Journal]</b> 1880- technology - usa - science - natural sciences	<a href="#">🔍 more info...</a> <a href="#">+ show abstract</a> <a href="#">📍 show location</a>
<input type="checkbox"/>	<b><u>Applied and environmental microbiology / publ. by the American Society for Microbiology</u></b> <b>[Journal]</b> American Society for Microbiology \ 1976- microbiology - food microbiology - industrial microbiology - fungi - mycology	<a href="#">🔍 more info...</a>
<input type="checkbox"/>	<b><u>Journal of dairy science</u></b> <b>[Journal]</b> American Dairy Science Association \ 1917- milk products - dairy science - animal physiology - animal nutrition - animal feeding - animal breeding - genetics - animal husbandry	<a href="#">🔍 more info...</a> <a href="#">+ show abstract</a>



# FROM COLLECTION ANALYSIS TO JOURNAL RECOMMENDATIONS

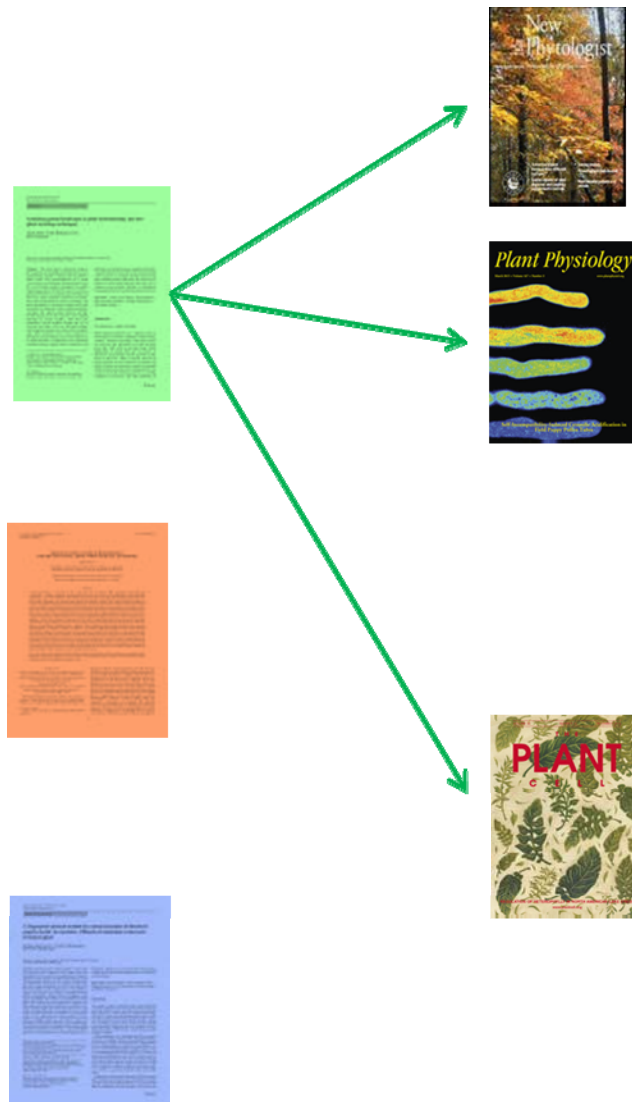
- Analyzed 18490 articles 2006-2013

**795850 references**

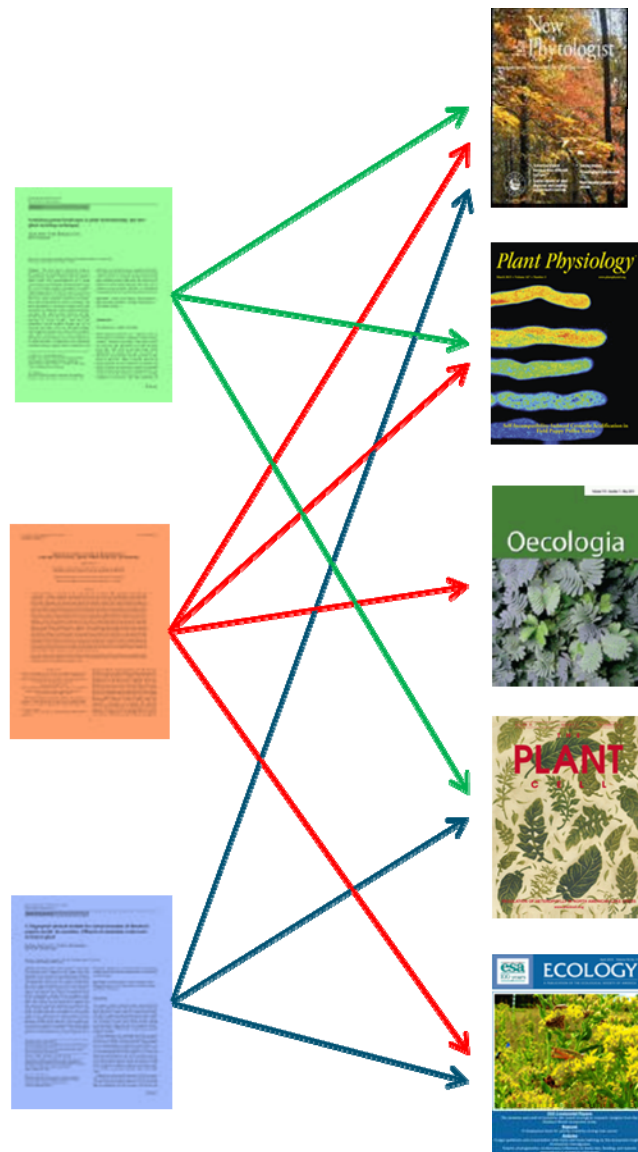


■ Book (chapters) ■ Journal articles ■ Theses ■ Reports ■ Other documents

# CO-CITATION ANALYSIS OF REFERENCES



# CO-CITATION ANALYSIS OF REFERENCES



Journal ▼	print ISSN ▼	online ISSN ▼	Number of co-citations ▼
Agricultural systems	0308-521X	1873-2267	1950
Agriculture ecosystems & environment	0167-8809		1308
Field crops research	0378-4290		609
European journal of agronomy	1161-0301		467
Journal of dairy science	0022-0302	1525-3198	431
Science (new york, n.y.)	0036-8075		359
Fertilizer research	1385-1314		329
Plant and soil	0032-079X	1573-5036	322
Agronomy journal	0002-1962	1435-0645	305
Ecological modelling	0304-3800		263
American journal of agricultural economics	0002-9092		260
Ecological economics	0921-8009		247
Agroforestry systems	0167-4366	1572-9680	235
Livestock production science	0301-6226		223
Nature	0028-0836	1476-4687	223
Geoderma	0016-7061		219
Agricultural water management	0378-3774		218
Environmental modelling & software	1364-8152		216
Climatic change	0165-0009	1573-1480	215
Agricultural economics	0169-5150		214
Proceedings of the national academy of sciences	0027-8424	1091-6490	209
Agricultural and forest meteorology	0168-1923		207
Soil & tillage research	0167-1987		205
Journal of environmental management	0301-4797	1095-8630	201
World development	0305-750X		200
Land use policy	0264-8377		190
Soil science society of america journal	0361-5995		185
Remote sensing of environment	0034-4257		182
Global environmental change-human and policy	0959-3780		179
Environmental science & policy	1462-9011		160
Netherlands journal of agricultural science	0028-2928		155



Journal	print ISSN	online ISSN	Number of co-citations
Agricultural systems	0308-521X	1873-2267	582
Journal of dairy science	0022-0302	1525-3198	573
Agriculture ecosystems & environment	0167-8809		318
Livestock production science	0301-6226		270
Journal of animal science	0021-8812		265
Animal feed science and technology	0377-8401		255
Aquaculture (amsterdam, netherlands)	0044-8486		193
Livestock science	1871-1413		176
Small ruminant research	0921-4488		170
Fertilizer research	1385-1314		143
Netherlands journal of agricultural science	0028-2928		134
Outlook on agriculture	0030-7270		104
Ecological economics	0921-8009		103
International journal of life cycle assessment	0948-3349		94
Journal of agricultural science	0021-8596	1469-5146	79
Animal : an international journal of animal bio	1751-7311	1751-732X	78
Njas-wageningen journal of life sciences	1573-5214		73
Journal of cleaner production	0959-6526		64
Asian journal of agriculture and development			63
European journal of agronomy	1161-0301		60
Australian journal of experimental agriculture	0816-1089		54
Aquaculture research	1355-557X	1365-2109	54
British journal of nutrition	0007-1145	1475-2662	53
Journal of environmental management	0301-4797	1095-8630	53
Journal of environmental quality	0047-2425		52
Applied animal behaviour science	0168-1591		50
Plant and soil	0032-079X	1573-5036	48
Aquacultural engineering	0144-8609		46
Fertilizer research	0167-1731	1573-0867	46
Agriculture and human values	0889-048X	1572-8366	46
Preventive veterinary medicine	0167-5877		43

## MORE INFORMATION

Van Veller, M.P.G. & W. Gerritsma (2015) Development of a journal recommendation tool based upon co-citation analysis of WageningenUR output. Presented at *7th International Conference on Qualitative and Quantitative Methods in Libraries*. Paris, May 26<sup>th</sup> 2015.

<http://www.slideshare.net/marco.vanveller/qqml-2015>

# WINDING DOWN

- Based on the institution's own output there are many possibilities to develop new services.
- Close collaboration with other parties is really important; eg. Dean's office, IT department, Communication office, but above all the researchers!
- CRIS and Institutional Repositories are about bibliographic metadata and data. Librarians are professionally trained in this subject matter
  - > New services require new skill sets, training on the job

# WINDING DOWN

- From knowledge on the publication behaviour and impact of your research groups and researchers, you have sufficient information to tell compelling stories
  - > Bibliometrics is part of information skills training for PhD, and Post Docs as well
  - > Involved in courses on Publication strategy, Publications ethics & Peer review
- Library is seen as an important and trusted partner



# TAKE HOME MESSAGES

- Start small, gain experience
- Show you are capable
- Be transparent!
- Make researchers your ambassador

<http://www.slideshare.net/wowter>

<http://viaf.org/viaf/285392263>

<http://orcid.org/0000-0001-7274-0698>

<http://isni.org/isni/0000000391572292>

<http://wu.academia.edu/WouterGerritsma>

<http://www.researcherid.com/rid/A-4161-2008>

<http://www.mendeley.com/profiles/wouter-gerritsma>

[http://www.researchgate.net/profile/Wouter\\_Gerritsma](http://www.researchgate.net/profile/Wouter_Gerritsma)

<http://scholar.google.com/citations?user=3iDBE-MAAAAJ>

<http://academic.research.microsoft.com/Author/34373815>

<http://www.narcis.nl/person/info:eu-repo/dai/nl/33714253X>

<http://www.scopus.com/authid/detail.url?authorId=6507564481>

